PATENT Docket No.: 52769US006



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

CLYDE D. CALHOUN, DAVID C. KOSKENMAKI, JAMES D. BERG and JENNIFER M. AAMODT

Serial No.:

Filed:

For:

MICROSTRUCTURED POLYMER SUBSTRATE

Group Art Unit:

Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

In accordance with 37 C.F.R. Sections 1.97 and 1.98, Applicants wish to call to the Examiner's attention the attached references, which generally relate to the present invention.

The Examiner's attention is also directed to the following co-pending, co-assigned U.S. Patent application and the references cited therein: USSN 08/902,172, filed July 29, 1997 (parent application).

Due to the large volume of references contained in the related parent application, copies of PTO-1449 and PTO-892 forms showing those references are enclosed for the Examiner to initial, but copies of these references can be found in U.S. Serial No. 08/902,172. If the Examiner wishes the Applicants to provide additional copies of any or all references, the examiner is invited to contact the Applicants' undersigned representative at (651) 733-3169.

Applicants submit that the above references, whether taken alone or in combination with each other neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the captioned application is respectfully requested.

Respectfully submitted,

Jeana Lown

JEAN A. LOWN

Registration No. 48,428 Attorney for Applicants

JAL:jlh/52769US006 IDS Office of Intellectual Property Counsel 3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427 (651) 733-3169

Facsimile: (651) 736-3833

Dated: June 18, 2003

INFORMATION

DISCLOSURE

CITATION

Atty. Docket No.: 52769USA4A

Serial No.: 08/902,172

Applicants(s): CALHOUN et al.

Filing Date: July 29, 1997

Group:

3,027,595 3,041,193 3,055,357	Date 04/03/62	DOCUMENTS Name Takai et al.	Class	SubClass	Filing Appro	
3,041,193		Takai at al			Appro	nrist
3,041,193			1 10	10		
	1 0/10/1/0	 	18	10		
3.055.357	06/26/62	Hamway et al.	117	11		
	09/25/62	Redka	128	32		
3,142,599	07/28/64	Chavannes	156	210	<u> </u>	
3,152,002	10/06/64	Wisotzky et al.	117	21	<u> </u>	
3,179,550	04/20/65	Friedman	161	62		
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	08/16/66	Flanagan, Jr.	24	204		
3,312,583	04/04/67	Rochlis	161	62		
3,312,586	04/04/67	Barlow	161	109		
3,607,493	09/21/71	Anderson	156	83		
3,709,752	01/09/73	Wistozky et al.	156	79		
3,772,224	11/13/73	Marlin et al.	260	2.5		
3,814,644	06/04/74	Anderson	156	78		
3,849,156	11/19/74	Marlin et al.	117	10		
3,973,059	08/03/76	Brown et al.	427	180		
4,025,678	05/24/77	Frank	428	90		
FOR	EIGN PATE	NT DOCUMENTS				
Document Number	Date	Country	Class	SubClass		slatic No
1,208,056	10/07/70	Great Britian	B32b	5/18		
57-25926	02/10/82	Japan (w/English language abstract)	B29D	27/00		
WO 94/23610	10/27/94	PCT	A44B	18/00		
		Date Considered				
	3,312,586 3,607,493 3,709,752 3,772,224 3,814,644 3,849,156 3,973,059 4,025,678 FOR Document Number 1,208,056 57-25926 WO 94/23610 R DOCUMENTS ()	3,266,113 3,312,583 04/04/67 3,312,586 04/04/67 3,607,493 09/21/71 3,709,752 01/09/73 3,772,224 11/13/73 3,814,644 06/04/74 3,849,156 11/19/74 3,973,059 08/03/76 4,025,678 FOREIGN PATE Document Number Date 1,208,056 10/07/70 57-25926 02/10/82 WO 94/23610 10/27/94 **Considered, whether or not citation is tronsidered. Include copy of this form with next to considered. Include copy of this form with next to considered. Include copy of this form with next to considered.	3,266,113	3,266,113	3,266,113 08/16/66 Flanagan, Jr. 24 204 3,312,583 04/04/67 Rochlis 161 62 3,312,586 04/04/67 Barlow 161 109 3,607,493 09/21/71 Anderson 156 83 3,709,752 01/09/73 Wistozky et al. 156 79 3,772,224 11/13/73 Marlin et al. 260 2.5 3,814,644 06/04/74 Anderson 156 78 3,849,156 11/19/74 Marlin et al. 117 10 3,973,059 08/03/76 Brown et al. 427 180 4,025,678 05/24/77 Frank 428 90 FOREIGN PATENT DOCUMENTS Document Number Data Country Class SubClass 1,208,056 10/07/70 Great Britian B32b 5/18 57-25926 02/10/82 Japan (w/English B29D 27/00 WO 94/23610 10/27/94 PCT A44B 18/00 Characteristic Country Characteristic Characteristic Country Characteristic Country Characteristic Characteristic Country Characteristic Characteristic Country Characteristic Characterist	3,266,113 08/16/66 Flanagan, Jr. 24 204 3,312,583 04/04/67 Rochlis 161 62 3,312,586 04/04/67 Barlow 161 109 3,607,493 09/21/71 Anderson 156 83 3,709,752 01/09/73 Wistozky et al. 156 79 3,772,224 11/13/73 Marlin et al. 260 2.5 3,814,644 06/04/74 Anderson 156 78 3,849,156 11/19/74 Marlin et al. 117 10 3,973,059 08/03/76 Brown et al. 427 180 4,025,678 05/24/77 Frank 428 90 FOREIGN PATENT DOCUMENTS Document Number Date Country Class SubClass Translation Translation

Based on Form PTO-FB-A820 (Also form PTO-1449)

Serial No.: 08/902,172

INFORMATION DISCLOSURE

Atty. Docket No.: 52769USA4A

Applicants(s): CALHOUN et al.

CITA	ATION Fil	ing Date: Ju	ıly 29, 1997	Group:			
	U.	S. PATENT	DOCUMENTS				
Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date 1 Appropriate	
	4,048,269	09/13/77	Wisotzky et al.	264	25		
	4,056,593	11/01/77	de Navas Albareda	264	145		
	4,376,147	03/08/83	Byrne et al.	428	167		
	4,436,520	03/13/84	Lipko et al.	604	385		
	4,546,029	10/08/85	Cancio et al.	428	141		
	5,032,122	07/16/91	Noel et al.	604	391		
	5,097,570	03/24/92	Gershenson	24	452		
	5,116,563	05/26/92	Thomas et al.	264	167		
	5,230,851	07/27/93	Thomas	264	145		
	5,273,805	12/28/93	Calhoun et al.	428	156		
	5,318,741	06/07/94	Thomas	264	519		
	5,326,415	07/05/94	Thomas et al.	156	244.11		
	5,403,478	04/04/95	Brinkley	210	242.4		
	5,403,884	04/04/95	Perlinski	524	524		
	5,407,735	04/18/95	Fukuda et al.	428	224		
	5,416,958	05/23/95	Lilly et al.	26	29 R		
	5,462,765	10/31/95	Calhoun et al.	427	198		
	FORI	EIGN PATE	NT DOCUMENTS				
	Document Number	Date	Country	Class	SubClass	Translatio Yes No	
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		3,950,582		04/13/76	Keuchel				
		4,183,889		01/15/80	Brendel				
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		1,169,621		11/05/69	Great Britain			Yes X	No
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Applicant(s) Application No. 08/902,172 Calhoun et al. Notice of References Cited Examiner Group Art Unit **Terrel Morris** 1771 Page 1 of 1 **U.S. PATENT DOCUMENTS** DOCUMENT NO. DATE NAME CLASS SUBCLASS Α 3,284,274 11/8/66 Hulslander et al. 428 91 В 3,524,791 8/18/70 Bethman et al. 428 91 С 4,636,417 1/13/87 Rasmussen 428 91 D 4,440,709 4/3/84 145 Rasmussen 264 E 4,422,837 12/27/83 Rasmussen 425 289 F 4,189,336 2/19/80 Hutflesz 156 72 G 4,076,874 2/28/78 Giovanelli et al. 428 86 н 3,870,778 3/11/75 Steel 264 164 1 3,693,851 9/26/72 Yazawa 225 3 J K L M **FOREIGN PATENT DOCUMENTS** DOCUMENT NO. COUNTRY DATE NAME **CLASS SUBCLASS** N 0 334 574 9/27/89 Europe Knight 0 Р Q R s т **NON-PATENT DOCUMENTS** DOCUMENT (Including Author, Title, Source, and Pertinent Pages) DATE U

U. S. Patent and Trademark Office PTO-892 (Rev. 9-95)

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Notice of References Cited

Part of Paper No. ____7

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			Application No. 08/902,172	Applicant(s)	Calhoun	et al.	
	Notice of Refe	rences Cited	Examiner Cheryl Ju	Group Art Unit	Page 1 of 1		
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 DOCUMENT (Including Author, Title, Source, and Pertinent Pages)							
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U. S. Patent and Trademark Office PTO-892 (Rev. 9-95)

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Notice of References Cited

Part of Paper No. 11

Application No. Applicant(s) 08/902,172 Calhoun et al. Notice of References Cited Examiner Group Art Unit Cheryl Juska 1771 Page 1 of 1 **U.S. PATENT DOCUMENTS** DOCUMENT NO. DATE NAME CLASS SUBCLASS Α 3,325,845 6/1967 Sawkiw 428 400 В 3,979,532 9/1976 Muck et al. 428 91 С 4,180,606 12/1979 Hance et al. 428 88 91 D 4,318,949 3/1982 Okamoto et al. 428 Ε 4,331,724 5/1982 Su 428 91 F G н ŧ ĸ L M **FOREIGN PATENT DOCUMENTS** COUNTRY DOCUMENT NO. DATE HAME CLASS SUBCLASS 11/1969 N 1,169,621 **Great Britian** Yamanashi Kasei Kogyo 0 Р Q R s T **NON-PATENT DOCUMENTS** DOCUMENT (Including Author, Title, Source, and Pertinent Pages) DATE

U. S. Patent and Trademark Office PTO-892 (Rev. 9-95)

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English language translation of FR 2030102.

Fairchild's Dictionary of Textiles, 7th ed., definition of FIBER, page 214.

Notice of References Cited

Part of Paper No. ____14

12/1968

1996

Notice of References Cited

Applicant/Patent Calhoun et al.		Application/Control No. 08/902,172			
Examiner Cheryl Juska		Art Unit 1771	Page 1 of 1		

U.S. PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY¹	Name	Class	ification 2
А	4,612,229 -	9/1986	Vittone et al.	428	155
8	4,778,634	10/1998	Douglas	264	22
С	4,815,714	3/1989	Douglas	264	- 22
D	4,832,886 -	5/1989	Douglas	264	41
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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^{*} A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a).

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		Notice of Acterence	S Citeu		Examiner	Art Unit	
					Ch ryl Juska	1771	Page 1 of 1
				U.S. P	ATENT DOCUMENTS		
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY		Name		Classification
#	Α	US-4,186,239	01-1980	Mize et	al.		428/399
X	В	US-4,259,393	03-1981	Marco,	Francis W.	442/196	
K	С	US-4,316,928	02-1982	Otto, W	/olfgang K. F.	442/195	
Ŕ	D	US-4,331,724	05-1982	Su, Tie	n-Kuei		428/91
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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Notice of References Cited

Part of Paper No. 29